88888888888 888888888888 888888888888	00000000 00000000 00000000	00000000 00000000 00000000		\$
BBB BBB	000 000	000 000	TTT	SSS
BBB BBB	000 000	000 000	TTŢ	SSS
BBB B BB	000 000	000 000	ŢŢŢ	ŠŠŠ
BBB BBB	000 000	000 000	TTT	SSS
BBB	000 000	000 000	TTT	ŠSS
BBB BBB	000 000	000 000	TTT	SSS
BBBBBBBBBB B B	000 000	000 000	TTT	SSSSSSSS
B BBBBBBBB B B	000 000	000 000	TTT	SSSSSSSS
BBBBBBBBBBBB	000 000	000 000	TTT	SSSSSSSS
888 B88	000 000	000 600	TTT	SSS
BBB BBB	000 000	000 000	TTT	ŠSS
BBB BBB	000 000	000 000	TTT	ŠŠŠ
BBB BBB	000 000	000 000	TTT	ŠŠŠ
BBB BBB	000 000	000 000	TTT	ŠŠŠ
BBB BBB	000 000	000 000	TTT	ŠŠŠ
BBBBBBBBBBBB	00000000	00000000	ŤŤŤ	SSSSSSSSSS
BBBBBBBBBBBB	00000000	00000000	ŤŤŤ	SSSSSSSSSS
8888888888	00000000	00000000	ŤŤŤ	\$\$\$\$\$\$\$\$\$\$\$\$\$

••••

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	88888888 88 88 88 88		DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	VV
	\$				

1

J 7 DLBTDRIVR Table of conterts 15-SEP-1984 23:50:41 VAX/VMS Macro V04-00 - RL01/2 BOOT DRIVER

(2) (3) 51 137 DECLARATIONS RL01/2 Bootstrap driver code

Page 0

8 ; *

16 ;* 17 ;*

18 : *

20 :*

21 :* 22 :* 23 :*

41 :

15-SEP-1984 23:50:41 VAX/VMS Macro V04-00 (B00TS.SRC]DLBTDRIVR.MAR;1

(1)

Page

.TITLE DLBTDRIVR - RL01/2 BOOT DRIVER .IDENT 'V04-000'

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FACILITY: BOOTS

ABSTRACT:

This module contains the bootstrap device driver for the RLO1/2 disks.

ENVIRONMENT: IPL 31, kernel mode, code must be PIC

AUTHOR: Steve Beckhardt, CREATION DATE: 31-Oct-1979 (Original author: Charlie Franks)

MODIFIED BY:

02-03 GRR2003 G. R. Robert 11-JUN-1981 fixed get status code to test status bits properly

02-02 CASOOO1 C.A. Samuelson 30-Apr-1980 Change interface to BOOTDRIVR for purge of UBA datapath

.BLKW

RL_MP,0,<-<\$TA,3>,-

<BH, ,M>,-

<HO,,M>,-

:MULTIPURPOSE REGISTER (MFR)

: DRIVE STATE

BRUSH HOME

: HEADS OUT

START OF MPR BIT DEFINITIONS

(2)

L 7

0006

0006

8000

0008

0008

8000

102

104

105

106

107

103 SDEF

RL MP

VIELD

```
M 7
                                                                15-SEP-1984 23:50:41 VAX/VMS Macro V04-00 
4-SEP-1984 23:04:06 [BOOTS.SRC]DLBTDRIVR.MAR;1
- RL01/2 BOOT DRIVER
                                                                                                                                              Page
DECLARATIONS
                                                 <CO,,1>,-
<HS,,M>,-
<TYP,,M>,-
<DSE,,M>,-
<VC,,M>,-
<WGE,,M>,-
<SPE,,M>,-
<SKTO,,M>,-
                                                                                          COVER OPEN
                                                                                         HEAD SELECT
DRIVE TYPE
DRIVE SELECT ERROR
VOLUME CHECK
        0008
                  109
        0008
                  110
        8000
                  111
        0008
                  112
        0008
                                                                                          WRITE GATE ERROR
SPIN ERROR
        0008
                  114
        0008
                  115
                                                                                          SEEK TIME OUT
        0008
                                                  <WL,,M>,-
<CHE,,M>,-
                  116
                                                                                          WRITE LOCK
        0008
                  117
                                                                                        ; CURRENT HEAD ERROR
        0008
                  118
                                                  <WDE,,M>-
                                                                                         WRITE DATA ERROR
                 119
120
121
122
123
124
125: OWN STORAGE:
126
127
128:
129: Boot driver table entry
130:
131
132
$BOOT_DRIVER DE
133
134
135
DR
        0008
                  119
                                                                                       END OF MPR BIT DEFINITIONS
        8000
        8000
                                                                                       ; END RL11/RL02 REGISTER DEFINITIONS
        0000
        0000
        0000
        0000
        0000
        0000
        0000
        0000
        0000
        0000
                                                              DEVTYPE = BTD$K DL,-

SIZE = DL_DRVSIZ,-

ADDR = DL_DRIVER,-
        0000
                                                                                                    ; Device type (DL)
        0000
                                                                                                    : Driver size
        0000
                                                                                                    : Driver address
        0000
                                                              DRIVRNAME = DLNAME
                                                                                                    : Driver file name
```

(2)

00FD

A9 30 30

ED

001C

189 105:

193

BISW3

BSBW

MOVZWL

CMPZV

READY

RL_MP(R7),R6 #0,#5,R6,-

WRL_MP_M_HO!-

```
N 7
                                                     15-SEP-1984 23:50:41
4-SEP-1984 23:04:06
      - RL01/2 BOOT DRIVER
                                                                              VAX/VMS Macro V04-00
     RL01/2 Bootstrap driver code
                                                                              [BOOTS.SRC]DLBTDRIVR.MAR:1
                                 .SBTTL RL01/2 Bootstrap driver code
                   138
           0000
                   139 ;++
           0000
           0000
                   140
           0000
                   141
                       : Inputs:
                   142
           0000
           0000
                                          - base address of adapter's register space
           0000
                   144
                                          - LBN FOR CURRENT PIECE OF TRANSFER
           0000
                   145
                                 R6
                                           - contains O
                                          address of device's CSRSIZE OF TRANSFER IN BYTES
           0000
                   146
                                 R7
           0000
                   147
                                 R8
           0000
                   148
                                 R9
                                           - address of the RPB
           0000
                   149
                                 R10

    starting address of transfer (byte offset in first

           0000
                   150
                                             page ORed with starting map register number)
           0000
                   151
                   152
153
           0000
                                 FUNC(AP)- I/O operation (IO$_READLBLK or IO$_WRITELBLK only)
           0000
                                 BUF(AP) - Buffer address
           0000
                   154
                                 SIZE(AP) - Size of transfer
           0000
                   155
           0000
                   156
                          Implicit inputs:
           0000
                   157
           0000
                   158
                                 RPB$W_UNIT
                                                   - RPB field containing boot device unit number
           0000
                   159
           0000
                   160
                          Outputs:
           0000
                   161
           0000
                   162
163
                                 RO - status code
           0000
           0000
                   164
                                          SS$ NORMAL
                                                             - successful transfer
           0000
                   165
                                          SS$_CTRLERR
                                                             - fatal controller error
           0000
                   166
           0000
                   167
                                 R3 - must be preserved
           0000
                   168
           0000
                   169
                                 This routine destroys R1, R2, R4, R5, R6. Within the
           0000
                   170
                                 routine, register usage is as follows:
           0000
                   171
           0000
                   172
           0000
                   173
00000004
           0000
                   174 BUF = 4
00000008
           0000
                   175 \text{ SIZE} = 8
00000010
           0000
                   176 FUNC = 16
           0000
                   177
                   178 DL_DRIVER:
           0000
           0000
           0000
                   180
           0000
                          RESET DRIVE AND WAIT FOR IT TO SPIN UP.
                   182
183
           0000
           0000
           0000
                   184
                                 CLRL
                                                                        CLEAR RO
 A9
      FΟ
           0002
                    185
                                          RPB$W_UNIT(R9),#8,#2,R0 : GET UNIT NUMBER
                                 INSV
                                          #RL_DA_M_STS!-
RL_DA_M_STS!-
RL_DA_M_MRK,RL_DA(R7)
#4,RO,RE_CS(R7)
 08
      BÓ
           0008
                   186
                                 MOVW
                                                                      : PUT RESET & GET STATUS IN DAR
           000C
                   187
           000c
                   188
```

EXECUTE DRIVE RESET

: TEST STATUS BITS 04:00

: HEADS, BRUSHES, STATE OK?

FETCH STATUS WORD

WAIT FOR CONTROLLER READY

(3)

15-SEP-1984 23:50:41 4-SEP-1984 23:04:06	VAX/VMS Macro VO4-00 [BOOTS.SRC]DLBTDRIVR.MAR;1	Page
---	--	------

DLBTDRIVR 104-000						- RL RL01	01/2 B00T /2 Bootstr	DRIVER	r code	8 8 15- 4-	-SEP-1984 2 -SEP-1984 2	23:50 23:04	:41 VA :06 [B	X/VMS M OOTS.SR	acro V(04-00 DRIVR.MAR;1	Page	(3)
				67	EE 01 E9	12 B3 13	001C 19 001C 19 001E 19 0023 19 0023 19 0023 20 0023 20 0023 20 0024 20 0027 0024 21 0034 21 0034 21 0034 21 0037 0039 0042)5)6)7	BNEQ BITW BEQL	RL_MP_M_BH! 10\$ #RL_CS_M_DR 10\$	5 DY,RL_CS(R7	7)	BRANCH IS DRIV IF NOT,	= SEEK IF NOT: E READY BRANCH	LINEAR WAIT F ? TO WAI	MODE STATE) FOR DRIVE TO	SPIN (UP
							0023 19 0023 19 0023 20 0023 20)O : FIND	(RRENT RE. CYLIN	DISK ADDRESS IDER	, CALCULATE	CYL	INDER D	IFFEREN	ICE, AND	SEEK		
			67	50	08 00E6 03	A9 30 18 31	0023 20 0023 20 0023 20 0023 20 0027 20)4 20 \$:	B JW3 BJBW BGEQ	#8,R0,RL_CS READY 30\$	(R7)		EXECUTE WAIT FO	READ H	EADER OLLER F	READY	6	
		51	06	A7	00 <u>č</u> 8	31 AB	002C 20 002F 20 0034 20)8 30 \$:	RW BICW3	100\$ #^077,RL_MP	(R7),R1		OTHERWI GET CUR	SE, BRA RENT CY	NCH TO	READY EADING HEADE ERROR HANDL RFACE	ING	
							0034 21 0034 21 0034 21 0034 21	0 ; 1 : NOW	CC VERT L	OGICAL TO PH	YSICAL							
F.		.	000	55	02 56	C4 D4 7B	0034 21 0034 21 0037 21	4 5	MULL CLRL	#2,R5 R6		;	CLEAR H	IGH PAR	T OF DI	CS TO SECTOR		
54 5	0	5 5	0000	0005			0039 21 0042 21 0042 21	6 7 8	EDIV CLRL	#80,R5,R6,R6	4	;	R6 = DE R4 = RE CLFAR H	SIRED C MAINING IGH PAR	YL = LE SECTOR	BN/(SECTORS/ RS LVIDEND	(CYL)	
		54	55	54	55 28	04 7B	0044 21 0049 22	9	EDIV	#40,R4,R5,R	4		R5 = DE R4 = DE	SIRED S	URFACE ECTOR	RS IVIDEND = R5/(SECT/	SUR)	
		56	56 01	56 06 51	07 55 56 2E	78 F0 B1 13	0044 21 0049 22 0049 22 0052 22 0055 22 0057 22 0057 22 0057 22	21 22 23	ASHL INSV CMPW BEQL	#7,R6,R6 R5,#6,#1,R6 R6,R1 50\$			INSERT IS A SE	ESTKEN	SURFA	ER INTO R6<1 CE BIT INTO	7:12	
							0057 22 0057 22 0057 22 0057 22	5 6 ; 7 ; NEED 8 ;	TO PERFO	RM A SEEK.								
		52	51 56	007 007 51	F 8F F 8F 52	AA AB A2 13	0057 23	19 30	BICW BICW3 SUBW	#^0177,R1 #^0177,R6,R2 R2,R1	2	•	ISOLATE	DESIRE	D CYLIN	NDER IN R1 NDER IN R2 1 ACTUAL		
					08	13 1E	0065 23 0067 23	3 4	BEQL BCC	40 \$ 40 \$: 1	BRANCH	IF CURR	ENT = D	ESTRED CYLI DESTRED CYL	NDER INDER	
		51	01	51 51 04 51	06 51 04 55	AE A8 F0 A9	005C 23 0062 23 0065 23 0067 23 0069 23 006C 23 0074 23 0079 24	5 6 7 40 \$:	MNEGW BISW INSV	R1,R1 #4,R1 R5,#4,#1,R1			ACTUAL< SET SIG INSERT	DESIRED N FOR M SURFACE	, MAKE OVE TO BIT IN	POSITIVE DI CENTER OF D I R1<4>	FF	
		04	A7 67				006F 23 0074 23 0079 23 0079 24	89	BISW3	#RL DA M MRI RL DA (R7)	_	; 1	WORD.) IFFERENCE		
			07		06 0090 03 0072	A9 30 18 31	NNRN 24	2	BISW3 BSBW BGEQ BRW	#6.RO.RL_CS READY 50\$ 100\$	(R/)	; \ ; \	WAIT FO Branch	SEEK F R CONTR IF NO E SE, BRA	OLLER R RROR DU	READY OR ERR JRING SEEK TO ERROR	OR	
							0082 24 0085 24 0085 24 0085 24 0085 24	66 : SEEK	, IF ANY,	IS COMPLETE	. EXECUTE T	ransi	FER FUN	CTION				
		56	06	00	54	FO	0085 24 0085 24 008A 25	8 9 50 \$:	INSV	R4,#0,#6,R6		; 1 ; (MERGE S CYL=R6<	ECTOR W 15:7> S	ITH CYL UR=R6<6	INDER AND S > SEC=R6<5:	URFACE 0>	

					- RL RL01	01/2 B00 /2 Boots	OT DRIVER strap driver	code	C 8 15-SEP-1984 2 4-SEP-1984 2	3:50:41 VAX/VMS Macro VO4-00 Page 6 3:04:06 [BOOTS.SRC]DLBTDRIVR.MAR;1 (3)	
		04 02	A7 A7 52	56 5A 58	B0 B0 B0	008A 008E 0092	251 252 253 254	MOVW MOVW	R6,RL_DA(R7) R10,RC_BA(R7) R8,R2	; SET DESIRED DISK ADDRESS ; SET BUFFER ADDRESS ; GET WORKING COPY OF BYTES LEFT TO XFER	
		51 51	28 0100 51	52 03	A3 A4 B1 1B B0	0095 0099 009E 00A1 00A3	251 253 255 255 255 255 255 255 255 255 255	SUBW3 MULW CMPW BLEQU MOVW	R4.#40.R1 #256.R1 R2.R1 60\$ R1 R2	; SET DESIRED DISK ADDRESS ; SET BUFFER ADDRESS ; GET WORKING COPY OF BYTES LEFT TO XFER ; AND ASSUME THIS IS LAST TRANSFER ; R1 = SECTORS LEFT ON SURFACE ; CONVERT TO BYTES LEFT ON SURFACE ; ARE ADDITIONAL TRANSFERS REQUIRED? ; BRANCH IF ANSWER IS NO. ; SET BYTE COUNT FOR THIS TRANSFER ; CALCULATE TRANSFER WORD COUNT ; SET NEG TRANSFER WORD COUNT ; ASSUME READ FUNCTION? ; BRANCH IF NOT ; SET WRITE FUNCTION CODE ; MERGE UNIT # WITH FUNCTION AND EXECUTE ; WAIT FOR CONTROLLER READY OR ERROR ; BRANCH ON ERROR ; FIND BYTES TRANSFERRED THIS TIME ; UPDATE BYTES LEFT TO TRANSFER ; BRANCH IF TRANSFER IS COMPLETE	
		06 20	51	51 02 52 0C AC	A6 AE B0 D1 12 B0 A9	00A6 00A9 00AD 00B0	260 60\$: 261 262 263 264 265 266 70\$:	DIVW MNEGW MOVW CMPL BNEQ	W2,R2 R2,RL_MP(R7) W^XC,R1 FUNC(AP),WIO\$_WRITELBLE	CALCULATE TRANSFER WORD COUNT SET NEG TRANSFER WORD COUNT ASSUME READ FUNCTION K; IS IT A WRITE FUNCTION?	
		67		03 0A 50 050 35	30 19	00B4 00B6 00B9 00BD 00C0	268	MOVW BISW3 BSBW BLSS	#AXA,R1 RO,R1,RL_CS(R7) READY 100\$: BRANCH IF NOT : SET WRITE FUNCTION CODE : MERGE UNIT # WITH FUNCTION AND EXECUTE : WAIT FOR CONTROLLER READY OR ERROR : BRANCH ON ERROR	
			52 58	35 02 52 10	A4 A2 13	00C2 00C5	269 80\$: 270 271 272 273 :	MULW Subw Beql	#2,R2 R2,R8 90\$; FIND BYTES TRANSFERRED THIS TIME ; UPDATE BYTES LEFT TO TRANSFER ; BRANCH IF TRANSFER IS COMPLETE	
						A 300 A 300 A 300	274 : UPDAT	E PARAME	TERS FOR NEXT TRANSFER		
51	04 56 55	A7 ₀₄ 56 5A	007F A7 01	8F 56 06 54 A7	AB A9 B6 EF D4 B0 31	00CA 00D1 00D6 00D8 00DD 00DF	276 277 278 279 280 281 282 283	BICW3 BISW3 INCW EXTZV CLRL MOVW	#^0177,RL_DA(R7),R1 #^077,RL_DA(R7),R6 R6 #6,#1,R6,R5 R4 RL_BA(R7),R10 35\$: UPDATE CURRENT CYLINDER IN R1<15:7> : SET SECTOR BITS TO 1'S AND - : UPDATE DESIRED DISK ADDRESS IN R6 : UPDATE DESIRED SURFACE IN R5 : UPDATE DESIRED SECTOR IN R4 : UPDATE DESIRED BUFFER ADDRESS : LOOP FOR NEXT TRANSFER	
			* *	70) (00E3 00E6 00E6 00E6 00E6	285 ;	BRW FER COMP	LETE - RETURN	; LOUP FOR NEXT TRANSFER	
	51	51 0006	08 08000 50	07	3C 12 D0 3C 05	00E6 00EA 00EC 00F3 00F6	288 289 90\$: 290 291 292 95\$: 293 294	MOVZWL BNEQ MOVL MOVZWL RSB	SIZE(AP),R1 95\$ #^X8U00,R1 #SS\$_NORMAL,R0	: SET TOTAL BYTES TRANSFERRED : BRANCH IF ORIGINAL SIZE WAS TRANSFERRED : ELSE SIZE WAS FORCED TO 64K : SET COMPLETION CODE : AND RETURN	
						00F 7 00F 7 00F 7 00F 7	295 : RETRY	ERROR			
5 A	58 04	58 0000 AC 50	08 01F40 09 0054	AC 07 8F 00 8F	3C 12 D0 EF 3C 05	00F7 00FB 00FD 0104 010A 010F 0110	297 298 299 100\$: 300 301 302 110\$: 303 304 305 306	MOVZWL BNEQ MOVL EXTZV MOVZWL RSB	SIZE(AP),R8 110\$ #8000,R8 #0,#9,BUF(AP),R10 #SS\$_CTRLERR,R0	RESTORE BYTE SIZE OF TRANSFER IN R8 RANCH IF SIZE WAS LEGAL ELSE FORCE TO 64K SIZE RESTORE BYTE OFFSET IN R10 SET FATAL CONTROLLER ERROR AND ATTEMPT RETRY	
						Ŏ11Ŏ	307 ;				

```
DLBTDRIVR
                                                                                          15-SEP-1984 23:50:41 VAX/VMS Macro V04-00 (B00TS.SRC]DLBTDRIVR.MAR;1
                                        - RL01/2 BOOT DRIVER
                                                                                                                                                       Page
Symbol table
                                      = 00000000 R
STABLE
                                                           02
BTD$K_DL
                                      = 00000002
BUF
                                      = 00000004
DLNAME
                                                           03
                                         00000118 R
DL_DRIVER
DL_DRVSIZ
                                         00000000 R
                                      = 00000125
FUNC
                                      = 00000010
IOS_WRITELBLK
                                      = 00000020
READY
                                         00000110 R
                                                           03
READY
RL_BA
RL_CS
RL_CS_M_DRDY
RL_DA_M_MRK
RL_DA_M_RST
RL_DA_M_STS
RL_MP
RL_MP_M_BH
RL_MP_M_HO
RPB$W_UNIT
                                         00000002
                                         0000000
                                      = 00000001
                                         00000004
                                      = 00000001
                                      = 00000008
                                      = 00000002
                                         0000006
                                      = 00000008
                                      = 00000010
                                      = 00000064
SIZ...
SIZE
                                      = 00000001
                                      = 00000008
SSS_CTRLERR
SSS_NORMAL
                                      = 00000054
                                      = 00000001
                                                             Psect synopsis!
PSECT name
                                        Allocation
                                                                PSECT No.
                                                                             Attributes
  ABS
                                        00000000
                                                                       0.)
                                                          0.)
                                                                00 (
                                                                                       USR
                                                                                               CON
                                                                                                             LCL NOSHR NOEXE NORD
                                                                                                                                        NOWRT NOVEC BYTE
                                                                                                      ABS
                                                                01 (
02 (
03 (
$ABS$
                                                                             NOPIC
                                        80000008
                                                                                                                            EXE
                                                          8.)
                                                                       1.)
                                                                                       USR
                                                                                               CON
                                                                                                      ABS
                                                                                                             LCL NOSHR
                                                                                                                                   RD
                                                                                                                                           WRT NOVEC BYTE
BOOTDRIVR_4
                                                         40.)
                                                                       2.)
3.)
                                                                              NOPIC
                                        00000028
                                                                                       USR
                                                                                               CON
                                                                                                      REL
                                                                                                             LCL NOSHR
                                                                                                                                   RD
                                                                                                                                           WRT NOVEC BYTE
                                        00000125
                                                       293.)
BOOTDRIVE 2
                                                                             NOPIC
                                                                                       IJSR
                                                                                               CON
                                                                                                      REL
                                                                                                             LCL NOSHR
                                                                                                                            EXE
                                                                                                                                   RD
                                                                                                                                           WRT NOVEC BYTE
                                                          Performance indicators !
Phase
                               Page faults
```

Phase	Page taults	LPU lime	Elapsed Ilme
••••			
initialization	31	80.00:00:00	00:00:00.45
Command processing	127	00:00:00.72	00:00:02.50
Pass 1	320	00:00:10.28	00:00:21.07
Symbol table sort	_0	00:00:01.74	00:00:03.06
Pass 2	70	00:00:01.80	00:00:03.28
Symbol table output	4	00:00:00.05	00:00:00.05
Psect synopsis output	2	00:00:00.03	90:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	556	00:00:14.70	00.00:30.64

The working set limit was 1350 pages. 58295 bytes (114 pages) of virtual memory were used to buffer the intermediate code. There were 60 pages of symbol table space allocated to hold 1101 non-local and 13 local symbols. 320 source lines were read in Pass 1, producing 14 object records in Pass 2. 17 pages of virtual memory were used to define 15 macros.

DLBTDRIVR VAX-11 Macro Run Statistics

- RL01/2 BOOT DRIVER

15-SEP-1984 23:50:41 VAX/VMS Macro V04-00 Page 4-SEP-1984 23:04:06 [BOOTS.SRC]DLBTDRIVR.MAR;1

! Macro library statistics !

Macro library name

\$255\$DUA28:[B00TS.OBJ]B00TS.MLB;1

\$255\$DUA28:[SYS.OBJ]LIB.MLB;1

\$255\$DUA28:[SYSLIB]STARLET.MLB;2

TOTALS (all libraries)

Macros defined

4

6

11

1162 GETS were required to define 11 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:DLBTDRIVR/OBJ=OBJ\$:DLBTDRIVR MSRC\$:DLBTDRIVR/UPDATE=(ENH\$:DLBTDRIVR)+EXECML\$/LIB+LIB\$:BOOTS.MLB/LIB

41

(3)

1

0038 AH-BT13A-SE

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